

## Author Index of Volume B 98

- Ahmad, M., 160  
Alva, S., 160  
Arbiol, J., 122  
Arscott, S., 140
- Bali, L.M., 5  
Barsan, N., 148  
Bavastrello, V., 247  
Beebe, D.J., 347  
Blinov, Y., 41  
Bodas, D.S., 37  
Bonanno, J., 328  
Bourgeois, D., 269  
Brinzari, V., 41, 122  
Brudzewski, K., 291
- Cabot, A., 122  
Carrara, S., 247  
Carvalho, A.C.P.L.F., 77  
Cerneavski, A., 122  
Chah, S., 208  
Chang, S.-C., 254  
Choi, S.-D., 239  
Choi, U.-S., 166  
Chua, H.C., 275  
Cioffi, N., 204  
Cornet, A., 122  
Coulon, J.-R., 63  
Cristina Tanese, M., 204  
Crucolini, A., 227
- Dabhade, R.V., 37  
Daftari, A., 92  
de Sousa, H.C., 77  
Delpha, C., 46  
Deshpande, S.K., 154  
Diamond, D., 12  
Dinnar, U., 18  
Distant, C., 305  
dos Santos Jr., D.S., 77  
Druon, C., 140  
Dubey, G.C., 5  
Dzantiev, B.B., 254
- Edwards, S., 12  
Elizalde-Torres, J., 218  
Erokhin, V., 247
- Fair, R.B., 319  
Filip, V., 233  
Flandre, D., 269  
Fonseca, F.J., 77  
Fryček, R., 233
- Gadkari, S.C., 154  
Gafarzadeh, A., 174  
Gallazzi, M.C., 204  
Gangal, S.A., 37  
Ganjali, M.R., 92  
García-Valenzuela, A., 218  
Gaub, H.E., 299  
George, M., 299  
Golovanov, V., 41  
Grodzinski, P., 328  
Guillet, N., 130  
Gupta, S.K., 154  
Gurlo, A., 148  
Guse, B., 188
- Hai-Qian, Z., 83  
Hasselbrink, E.F., 368  
Heng, L.Y., 160  
Hu, H., 218
- Irudayaraj, J., 54  
Ishida, M., 69  
Ivanov, M., 122
- Jagannath, 154  
Jakobson, C.G., 18  
Jelinek, M., 233  
Jian-Guo, W., 83  
Joseph, Y., 188  
Joshi, N., 154
- Kim, M.-N., 1  
Kim, S.J., 368  
Korotcenkov, G., 41, 122  
Kumar, R.V., 196  
Kurabayashi, K., 356  
Kuriakose, A.K., 73
- Lalauze, R., 130  
Lammertyn, J., 54  
Lau, K.T., 12  
Lau, S.P., 275  
Le Gac, S., 140  
Lenigk, R., 328  
Li, Y., 115  
Lin, C.-T., 356  
Liu, R.H., 328  
Lobert, P.E., 269  
Lucat, C., 63  
Lumbreras, M., 46
- Mädler, L., 148  
Maffei, N., 73
- Malmegrim, R.R., 77  
Markiewicz, T., 291  
Martin, V., 233  
Mastrangelo, C.H., 337  
Matsugi, Y., 101  
Mattoso, L.H.C., 77  
McNeil, C.J., 254  
Menil, F., 63  
Miao, J.M., 275  
Milne, W.I., 275  
Min, B.-K., 239  
Min, J.Y., 368  
Mirmohseni, A., 28  
Mishra, A.P., 5  
Misra, P., 5  
Morante, J., 122  
Moreno-Hagelsieb, L., 269  
Morgenshtein, A., 18  
Muthe, K.P., 154
- Náhlík, J., 233  
Narducci, R., 227  
Naseri, M.A., 174  
Nemirovsky, Y., 18  
Nicolini, C., 247  
Ning, G., 83  
Norouzi, P., 92
- Ohshina, T., 69  
Oladegaragoze, A., 28  
Oliveira Jr., O.N., 77  
Osowski, S., 291  
Ozers, M.S., 347  
Ozoemena, K.I., 97
- Palombari, R., 227  
Pampin, R., 269  
Pan, N.-Y., 180  
Parak, W.J., 299  
Parashar, G.K., 5  
Park, K.-H., 1  
Persaud, K.C., 305  
Pijolat, C., 130  
Plekhanova, Yu.V., 254  
Pollack, M.G., 319  
Pratsinis, S.E., 148
- Qomi, M., 92
- Rabbani, M., 92  
Remacle, J., 269  
Ren, H., 319  
Reshetilov, A.N., 254
- Riul Jr., A., 77  
Rolando, C., 140  
Roy, M., 154
- Sabbatini, L., 204  
Sadeghi, S., 174  
Sahm, T., 148  
Sakai, G., 166  
Salavati-Niasari, M., 92  
Sawada, K., 69  
Schillinger, E.F.J., 262  
Sen, S., 154  
Sethu, P., 337  
Sharghi, H., 174  
Sheeja, D., 275  
Shih, J.-S., 180  
Shimada, T., 69  
Shimano, K., 166  
Shukla, R.K., 5  
Shukla, S.K., 5  
Siadat, M., 46  
Siciliano, P., 305  
Skerlos, S.J., 356  
Stefan, R.-I., 97  
Stein, B., 299  
Stura, E., 247  
Sudakov-Boreysa, L., 18  
Suzuki, H., 101
- Tabourier, P., 140  
Takao, H., 69  
Tardy, P., 63  
Tay, B.K., 275  
Torsi, L., 204  
Tung, Y.-C., 356
- Veraverbeke, E.A., 54  
Virkar, A.V., 282  
Vladimír, M., 233  
Vossmeier, T., 188
- Walker, G.M., 347  
Wang, L., 196  
Wang, W., 282  
Wei, Y., 83  
Weimar, U., 148  
Wesche, K.-D., 83  
Wheeler, A.R., 208  
Whelan, R.J., 208  
Wright, J.D., 262
- Xiangfeng, C., 215

Yadav, B.C., 5  
Yakhmi, J.V., 154  
Yamazoe, N., 166  
Yang, J., 328

Yasuda, A., 188  
Yazynina, E.V., 254  
Yi-Hong, W., 83  
Yu, L.J., 275

Zambonin, P. Giorgio, 204  
Zare, R.N., 208  
Zhang, M., 356  
Zherdev, A.V., 254

Zhiming, C., 215  
Zhu, G., 115  
Zhu, L., 115  
Zuppa, M., 305

## Subject Index of Volume B 98

- Acid vapours sensor  
Poly(2,5-dimethylaniline); Carbon nanotubes; Spontaneous undoping process (Bavastrello, V. (98) 247)
- Adsorption energies  
Polyaniline thin films; Nitrogen dioxide; Optical absorbance (Elizalde-Torres, J. (98) 218)
- Aerosol  
Tin dioxide; Gas sensors; Flame spray pyrolysis (Sahm, T. (98) 148)
- Agarose gel  
Microarrays; Antigen; Antibody; Enzyme immunoassay (Wei, Y. (98) 83)
- Air gap  
Ammonia electrode; Flow channel; Creatinine; Differential mode (Suzuki, H. (98) 101)
- Alkoxyl chains  
Organic thin-film-transistors; OTFT gas sensors; Regioregular polythiophenes; Ethanol sensor (Torsi, L. (98) 204)
- Ammonia detection  
Berthelot's reaction; Optical sensor; Colorimetric method; Solid-state ammonia sensor; Disposable sensor; Water monitoring (Lau, K.T. (98) 12)
- Ammonia electrode  
Flow channel; Air gap; Creatinine; Differential mode (Suzuki, H. (98) 101)
- Ammonia  
Gold; Platinum; Nanoparticles; Sensor; Chemiresistor; Vapor; Carbon monoxide (Joseph, Y. (98) 188)
- Ammonia  
Tellurium film; Gas sensor; Semiconductor; Impedance spectroscopy (Sen, S. (98) 154)
- Ammonium ion sensor  
Photocure; Poly(butyl acrylate) membrane; Self-plasticising; Sewage (Heng, L.Y. (98) 160)
- Anti-hemoglobin  
Immobilized antibody; C60-anti-human IgG; C60-anti-hemoglobin; Anti-IgG; Fullerene; Piezoelectric immunosensor (Pan, N.-Y. (98) 180)
- Anti-IgG  
Immobilized antibody; C60-anti-human IgG; C60-anti-hemoglobin; Anti-hemoglobin; Fullerene; Piezoelectric immunosensor (Pan, N.-Y. (98) 180)
- Antibody  
Microarrays; Antigen; Enzyme immunoassay; Agarose gel (Wei, Y. (98) 83)
- Antigen  
Microarrays; Antibody; Enzyme immunoassay; Agarose gel (Wei, Y. (98) 83)
- Aroma profiling  
zNose<sup>TM</sup>; Honey; Classification; PCA; CDA (Lammertyn, J. (98) 54)
- Artificial neural networks  
Conducting polymers; Taste; Wines; Electronic tongue (Riul Jr., A. (98) 77)
- Au  
Oxygen; Carbon monoxide; Potentiometric gas sensor; Pt; Solid electrolyte (Guillet, N. (98) 130)
- Baculovirus expression system  
Microfluidics; PDMS; Microchannel; Concentration gradient (Walker, G.M. (98) 347)
- Berthelot's reaction  
Ammonia detection; Optical sensor; Colorimetric method; Solid-state ammonia sensor; Disposable sensor; Water monitoring (Lau, K.T. (98) 12)
- BioMEMS  
Epoxy casting; Microfluidics; Microfabrication; Plastic micromachining; Polymers (Sethu, P. (98) 337)
- Biosensor  
Flow injection analysis; Luminol; Electrochemiluminescence; Glycolic acid; Plant tissue (Zhu, L. (98) 115)
- bis(Thiophenyl)phenylene-1,3-diamine (TPD)  
Lanthanum; Potentiometry; Schiff's base; TPD (Ganjali, M.R. (98) 92)
- C60-anti-hemoglobin  
Immobilized antibody; C60-anti-human IgG; Anti-IgG; Anti-hemoglobin; Fullerene; Piezoelectric immunosensor (Pan, N.-Y. (98) 180)
- C60-anti-human IgG  
Immobilized antibody; C60-anti-hemoglobin; Anti-IgG; Anti-hemoglobin; Fullerene; Piezoelectric immunosensor (Pan, N.-Y. (98) 180)
- Carbon monoxide  
Gold; Platinum; Nanoparticles; Sensor; Chemiresistor; Vapor; Ammonia (Joseph, Y. (98) 188)
- Carbon monoxide  
Oxygen; Potentiometric gas sensor; Pt; Au; Solid electrolyte (Guillet, N. (98) 130)
- Carbon monoxide  
Tin dioxide; Cobalt oxide; Semiconductor gas sensors; Hydrogen (Choi, U.-S. (98) 166)
- Carbon nanotubes  
Poly(2,5-dimethylaniline); Acid vapours sensor; Spontaneous undoping process (Bavastrello, V. (98) 247)
- Cathodic arc technique  
Low stress a-C films; Micro-cantilevers; KOH etching (Sheeja, D. (98) 275)
- CCD  
ISFET; Charge transfer; Ion sensor; pH sensor (Sawada, K. (98) 69)
- CDA  
zNose<sup>TM</sup>; Aroma profiling; Honey; Classification; PCA (Lammertyn, J. (98) 54)
- CdSnO<sub>3</sub>  
Gas sensor; Chlorine (Xiangfeng, C. (98) 215)
- Cell  
Light-addressable potentiometric sensor (LAPS); Silicon-based detector; Semiconductor interface (Stein, B. (98) 299)
- Charge transfer  
ISFET; Ion sensor; pH sensor; CCD (Sawada, K. (98) 69)
- Chemiresistor  
Gold; Platinum; Nanoparticles; Sensor; Vapor; Ammonia; Carbon monoxide (Joseph, Y. (98) 188)
- Chemisorbed species  
SnO<sub>2</sub> thin films; Gas response; Kinetics (Korotcenkov, G. (98) 41)



- Chlorine  
Gas sensor; CdSnO<sub>3</sub> (Xiangfeng, C. (98) 215)
- Chlorsulfuron  
Pesticide; Screen printed electrodes; Immunosensor (Dzantiev, B.B. (98) 254)
- Classification  
zNose<sup>TM</sup>; Aroma profiling; Honey; PCA; CDA (Lammertyn, J. (98) 54)
- CO  
CuO semiconductor; Conductance sensor; NO<sub>2</sub> (Cruccolini, A. (98) 227)
- CO<sub>2</sub> and humidity effects  
Tin oxide gas sensors; TGS sensor array; Electronic nose applications; R134a; Data processing; Pattern recognition (Delpha, C. (98) 46)
- Cobalt oxide  
Tin dioxide; Semiconductor gas sensors; Carbon monoxide; Hydrogen (Choi, U.-S. (98) 166)
- Colorimetric method  
Ammonia detection; Berthelot's reaction; Optical sensor; Solid-state ammonia sensor; Disposable sensor; Water monitoring (Lau, K.T. (98) 12)
- Concentration gradient  
Microfluidics; Baculovirus expression system; PDMS; Microchannel (Walker, G.M. (98) 347)
- Conductance sensor  
CuO semiconductor; NO<sub>2</sub>; CO (Cruccolini, A. (98) 227)
- Conducting polymers  
Taste; Wines; Artificial neural networks; Electronic tongue (Riul Jr., A. (98) 77)
- Creatinine  
Ammonia electrode; Flow channel; Air gap; Differential mode (Suzuki, H. (98) 101)
- Crystallite growth inhibitor  
Ion beam sputtering; Long-term stability; Methane gas; Thin film; Surface roughness (Min, B.-K. (98) 239)
- CuO semiconductor  
Conductance sensor; NO<sub>2</sub>; CO (Cruccolini, A. (98) 227)
- Data processing  
Tin oxide gas sensors; TGS sensor array; Electronic nose applications; R134a; CO<sub>2</sub> and humidity effects; Pattern recognition (Delpha, C. (98) 46)
- Differential mode  
Ammonia electrode; Flow channel; Air gap; Creatinine (Suzuki, H. (98) 101)
- Disposable sensor  
Ammonia detection; Berthelot's reaction; Optical sensor; Colorimetric method; Solid-state ammonia sensor; Water monitoring (Lau, K.T. (98) 12)
- Dosimeter  
Ozone; Nitrogen dioxide; Piezo-optical (Schillinger, E.F.J. (98) 262)
- Droplet dispensing  
Microfluidics; Volume control; Electro-wetting (Ren, H. (98) 319)
- Electrical detection  
Sensitive DNA; Microelectrodes (Moreno-Hagelsieb, L. (98) 269)
- Electro-wetting  
Microfluidics; Volume control; Droplet dispensing (Ren, H. (98) 319)
- Electrochemiluminescence  
Flow injection analysis; Luminol; Biosensor; Glycolic acid; Plant tissue (Zhu, L. (98) 115)
- Electrokinetic pump  
Electroosmotic pump; High pressure micropump (Min, J.Y. (98) 368)
- Electronic nose applications  
Tin oxide gas sensors; TGS sensor array; R134a; CO<sub>2</sub> and humidity effects; Data processing; Pattern recognition (Delpha, C. (98) 46)
- Electronic nose  
mSom neural network; Odour classes (Zuppa, M. (98) 305)
- Electronic tongue  
Conducting polymers; Taste; Wines; Artificial neural networks (Riul Jr., A. (98) 77)
- Electroosmotic pump  
Electrokinetic pump; High pressure micropump (Min, J.Y. (98) 368)
- Enantioanalysis  
Enantioselective, potentiometric membrane electrode; Maltodextrin; L-Proline (Ozoemena, K.I. (98) 97)
- Enantioselective, potentiometric membrane electrode  
Enantioanalysis; Maltodextrin; L-Proline (Ozoemena, K.I. (98) 97)
- Environmental pollution  
Phenol; Polymethylmetacrylate; Quartz crystal microbalance (Mirmohseni, A. (98) 28)
- Enzyme immobilization  
Microbial BOD sensor; *Klebsiella* sp. (Kim, M.-N. (98) 1)
- Enzyme immunoassay  
Microarrays; Antigen; Antibody; Agarose gel (Wei, Y. (98) 83)
- Epoxy casting  
Microfluidics; BioMEMS; Microfabrication; Plastic micromachining; Polymers (Sethu, P. (98) 337)
- Ethanol sensor  
Organic thin-film-transistors; OTFT gas sensors; Regioregular polythiophenes; Alkoxyl chains (Torsi, L. (98) 204)
- Flame spray pyrolysis  
Tin dioxide; Gas sensors; Aerosol (Sahm, T. (98) 148)
- Flow channel  
Ammonia electrode; Air gap; Creatinine; Differential mode (Suzuki, H. (98) 101)
- Flow injection analysis  
Luminol; Electrochemiluminescence; Biosensor; Glycolic acid; Plant tissue (Zhu, L. (98) 115)
- Fullerene  
Immobilized antibody; C60-anti-human IgG; C60-anti-hemoglobin; Anti-IgG; Anti-hemoglobin; Piezoelectric immunosensor (Pan, N.-Y. (98) 180)
- Gas response  
In<sub>2</sub>O<sub>3</sub>; Spray pyrolysis; Reducing gases (Korotcenkov, G. (98) 122)
- Gas response  
SnO<sub>2</sub> thin films; Kinetics; Chemisorbed species (Korotcenkov, G. (98) 41)
- Gas sensor  
Ammonia; Tellurium film; Semiconductor; Impedance spectroscopy (Sen, S. (98) 154)
- Gas sensor  
Chlorine; CdSnO<sub>3</sub> (Xiangfeng, C. (98) 215)
- Gas sensor  
Thermal conductivity; Transient mode (Tardy, P. (98) 63)
- Gas sensors  
Tin dioxide; Flame spray pyrolysis; Aerosol (Sahm, T. (98) 148)
- Glycolic acid  
Flow injection analysis; Luminol; Electrochemiluminescence; Biosensor; Plant tissue (Zhu, L. (98) 115)
- Gold  
Platinum; Nanoparticles; Sensor; Chemiresistor; Vapor; Ammonia; Carbon monoxide (Joseph, Y. (98) 188)
- H<sub>2</sub>O absorption  
Off-stoichiometric perovskite oxides; Humidity sensor; Proton conductor; Porous solid (Wang, W. (98) 282)
- HCl sensor  
Nd-doped strontium cerate; Thick film (Wang, L. (98) 196)
- High pressure micropump  
Electroosmotic pump; Electrokinetic pump (Min, J.Y. (98) 368)
- Honey  
zNose<sup>TM</sup>; Aroma profiling; Classification; PCA; CDA (Lammertyn, J. (98) 54)

- Humidity sensing  
PMMA; Plasma treatment (Dabhade, R.V. (98) 37)
- Humidity sensor  
Off-stoichiometric perovskite oxides; Proton conductor; H<sub>2</sub>O absorption; Porous solid (Wang, W. (98) 282)
- Hydrogen  
Sensor; Solid electrolyte; Palladium (Maffei, N. (98) 73)
- Hydrogen  
Tin dioxide; Cobalt oxide; Semiconductor gas sensors; Carbon monoxide (Choi, U.-S. (98) 166)
- Immobilized antibody  
C60-anti-human IgG; C60-anti-hemoglobin; Anti-IgG; Anti-hemoglobin; Fullerene; Piezoelectric immunosensor (Pan, N.-Y. (98) 180)
- Immunosensor  
Pesticide; Chlorsulfuron; Screen printed electrodes (Dzantiev, B.B. (98) 254)
- Impedance spectroscopy  
Ammonia; Tellurium film; Gas sensor; Semiconductor (Sen, S. (98) 154)
- In<sub>2</sub>O<sub>3</sub>  
Pulsed laser deposition; WO<sub>3</sub> and InAcAc basic materials; Ozone and NO<sub>x</sub>; Low temperature sensitivity (Fryček, R. (98) 233)
- In<sub>2</sub>O<sub>3</sub>  
Spray pyrolysis; Gas response; Reducing gases (Korotcenkov, G. (98) 122)
- Ion beam sputtering  
Long-term stability; Methane gas; Thin film; Crystallite growth inhibitor; Surface roughness (Min, B.-K. (98) 239)
- Ion sensor  
ISFET; Charge transfer; pH sensor; CCD (Sawada, K. (98) 69)
- ISFET  
Charge transfer; Ion sensor; pH sensor; CCD (Sawada, K. (98) 69)
- ISFET  
Readout; Wheatstone-Bridge (Morgenshtein, A. (98) 18)
- Kinetics  
SnO<sub>2</sub> thin films; Gas response; Chemisorbed species (Korotcenkov, G. (98) 41)
- Klebsiella* sp.  
Microbial BOD sensor; Enzyme immobilization (Kim, M.-N. (98) 1)
- KOH etching  
Cathodic arc technique; Low stress a-C films; Micro-cantilevers (Sheeja, D. (98) 275)
- Lab-on-chip  
Nano-electrospray ionisation; Micro-fabrication; Micro-fluidic device;  $\mu$ TAS; SU-8; Mass spectrometry; Proteomics (Arscott, S. (98) 140)
- Lanthanum  
Potentiometry; bis(Thiophenyl)phenylene-1,3-diamine (TPD); Schiff's base; TPD (Ganjali, M.R. (98) 92)
- Light-addressable potentiometric sensor (LAPS)  
Silicon-based detector; Cell; Semiconductor interface (Stein, B. (98) 299)
- Liquid membrane  
Triiodide ion-selective electrodes; Schiff base complexes; Potentiometry (Sadeghi, S. (98) 174)
- Long-term stability  
Ion beam sputtering; Methane gas; Thin film; Crystallite growth inhibitor; Surface roughness (Min, B.-K. (98) 239)
- Low stress a-C films  
Cathodic arc technique; Micro-cantilevers; KOH etching (Sheeja, D. (98) 275)
- Low temperature sensitivity  
Pulsed laser deposition; In<sub>2</sub>O<sub>3</sub>; WO<sub>3</sub> and InAcAc basic materials; Ozone and NO<sub>x</sub> (Fryček, R. (98) 233)
- Luminol  
Flow injection analysis; Electrochemiluminescence; Biosensor; Glycolic acid; Plant tissue (Zhu, L. (98) 115)
- Maltodextrin  
Enantioselective, potentiometric membrane electrode; Enantioanalysis; L-Proline (Ozoemena, K.I. (98) 97)
- Mass spectrometry  
Nano-electrospray ionisation; Micro-fabrication; Micro-fluidic device; Lab-on-chip;  $\mu$ TAS; SU-8; Proteomics (Arscott, S. (98) 140)
- Methane gas  
Ion beam sputtering; Long-term stability; Thin film; Crystallite growth inhibitor; Surface roughness (Min, B.-K. (98) 239)
- MgO on U-shaped rod  
MgO precursor; Optical fiber and humidity sensing device (Shukla, S.K. (98) 5)
- MgO precursor  
MgO on U-shaped rod; Optical fiber and humidity sensing device (Shukla, S.K. (98) 5)
- Micro-cantilevers  
Cathodic arc technique; Low stress a-C films; KOH etching (Sheeja, D. (98) 275)
- Micro-fabrication  
Nano-electrospray ionisation; Micro-fluidic device; Lab-on-chip;  $\mu$ TAS; SU-8; Mass spectrometry; Proteomics (Arscott, S. (98) 140)
- Micro-fluidic device  
Nano-electrospray ionisation; Micro-fabrication; Lab-on-chip;  $\mu$ TAS; SU-8; Mass spectrometry; Proteomics (Arscott, S. (98) 140)
- Microarrays  
Antigen; Antibody; Enzyme immunoassay; Agarose gel (Wei, Y. (98) 83)
- Microbial BOD sensor  
*Klebsiella* sp.; Enzyme immobilization (Kim, M.-N. (98) 1)
- Microchannel  
Microfluidics; Baculovirus expression system; PDMS; Concentration gradient (Walker, G.M. (98) 347)
- Microelectrodes  
Sensitive DNA; Electrical detection (Moreno-Hagelsieb, L. (98) 269)
- Microfabrication  
Epoxy casting; Microfluidics; BioMEMS; Plastic micromachining; Polymers (Sethu, P. (98) 337)
- Microfluidics  
Baculovirus expression system; PDMS; Microchannel; Concentration gradient (Walker, G.M. (98) 347)
- Microfluidics  
Epoxy casting; BioMEMS; Microfabrication; Plastic micromachining; Polymers (Sethu, P. (98) 337)
- Microfluidics  
PDMS observation cell; Self-aligned optical fibers; Spectral flow cytometry; PIN photodiode; Multi-parameter biological detection (Tung, Y.-C. (98) 356)
- Microfluidics  
PDMS; Surface plasmon resonance; Soft lithography; Spreeta; Refractive index (Wheeler, A.R. (98) 208)
- Microfluidics  
Volume control; Droplet dispensing; Electro-wetting (Ren, H. (98) 319)
- MicroTAS  
Valves; Paraffin; PCR (Liu, R.H. (98) 328)
- Milk classification  
Support vector machine; Neural network (Brudzewski, K. (98) 291)
- mSom neural network  
Odour classes; Electronic nose (Zuppa, M. (98) 305)
- Multi-parameter biological detection  
PDMS observation cell; Self-aligned optical fibers; Spectral flow cytometry; PIN photodiode; Microfluidics (Tung, Y.-C. (98) 356)



- Nano-electrospray ionisation  
Micro-fabrication; Micro-fluidic device; Lab-on-chip;  $\mu$ TAS; SU-8; Mass spectrometry; Proteomics (Arscott, S. (98) 140)
- Nanoparticles  
Gold; Platinum; Sensor; Chemiresistor; Vapor; Ammonia; Carbon monoxide (Joseph, Y. (98) 188)
- Nd-doped strontium cerate  
HCl sensor; Thick film (Wang, L. (98) 196)
- Neural network  
Milk classification; Support vector machine (Brudzewski, K. (98) 291)
- Nitrogen dioxide  
Ozone; Piezo-optical; Dosimeter (Schillinger, E.F.J. (98) 262)
- Nitrogen dioxide  
Polyaniline thin films; Optical absorbance; Adsorption energies (Elizalde-Torres, J. (98) 218)
- $\text{NO}_2$   
CuO semiconductor; Conductance sensor; CO (Cruccolini, A. (98) 227)
- Odour classes  
mSom neural network; Electronic nose (Zuppa, M. (98) 305)
- Off-stoichiometric perovskite oxides  
Humidity sensor; Proton conductor;  $\text{H}_2\text{O}$  absorption; Porous solid (Wang, W. (98) 282)
- Optical absorbance  
Polyaniline thin films; Nitrogen dioxide; Adsorption energies (Elizalde-Torres, J. (98) 218)
- Optical fiber and humidity sensing device  
MgO precursor; MgO on U-shaped rod (Shukla, S.K. (98) 5)
- Optical sensor  
Ammonia detection; Berthelot's reaction; Colorimetric method; Solid-state ammonia sensor; Disposable sensor; Water monitoring (Lau, K.T. (98) 12)
- Organic thin-film-transistors  
OTFT gas sensors; Regioregular polythiophenes; Alkoxy chains; Ethanol sensor (Torsi, L. (98) 204)
- OTFT gas sensors  
Organic thin-film-transistors; Regioregular polythiophenes; Alkoxy chains; Ethanol sensor (Torsi, L. (98) 204)
- Oxygen  
Carbon monoxide; Potentiometric gas sensor; Pt; Au; Solid electrolyte (Guillet, N. (98) 130)
- Ozone and  $\text{NO}_x$   
Pulsed laser deposition;  $\text{In}_2\text{O}_3$ ;  $\text{WO}_3$  and InAcAc basic materials; Low temperature sensitivity (Fryček, R. (98) 233)
- Ozone  
Nitrogen dioxide; Piezo-optical; Dosimeter (Schillinger, E.F.J. (98) 262)
- Palladium  
Hydrogen; Sensor; Solid electrolyte (Maffei, N. (98) 73)
- Paraffin  
Valves; PCR; MicroTAS (Liu, R.H. (98) 328)
- Pattern recognition  
Tin oxide gas sensors; TGS sensor array; Electronic nose applications; R134a;  $\text{CO}_2$  and humidity effects; Data processing (Delpha, C. (98) 46)
- PCA  
zNose<sup>TM</sup>; Aroma profiling; Honey; Classification; CDA (Lammertyn, J. (98) 54)
- PCR  
Valves; Paraffin; MicroTAS (Liu, R.H. (98) 328)
- PDMS observation cell  
Self-aligned optical fibers; Spectral flow cytometry; PIN photodiode; Microfluidics; Multi-parameter biological detection (Tung, Y.-C. (98) 356)
- PDMS  
Microfluidics; Baculovirus expression system; Microchannel; Concentration gradient (Walker, G.M. (98) 347)
- PDMS  
Surface plasmon resonance; Microfluidics; Soft lithography; Spreeta; Refractive index (Wheeler, A.R. (98) 208)
- Pesticide  
Chlorsulfuron; Screen printed electrodes; Immunosensor (Dzantiev, B.B. (98) 254)
- pH sensor  
ISFET; Charge transfer; Ion sensor; CCD (Sawada, K. (98) 69)
- Phenol  
Environmental pollution; Polymethylmetacrylate; Quartz crystal microbalance (Mirmohseni, A. (98) 28)
- Photocure  
Poly(butyl acrylate) membrane; Self-plasticising; Ammonium ion sensor; Sewage (Heng, L.Y. (98) 160)
- Piezo-optical  
Ozone; Nitrogen dioxide; Dosimeter (Schillinger, E.F.J. (98) 262)
- Piezoelectric immunosensor  
Immobilized antibody; C60-anti-human IgG; C60-anti-hemoglobin; Anti-IgG; Anti-hemoglobin; Fullerene (Pan, N.-Y. (98) 180)
- PIN photodiode  
PDMS observation cell; Self-aligned optical fibers; Spectral flow cytometry; Microfluidics; Multi-parameter biological detection (Tung, Y.-C. (98) 356)
- Plant tissue  
Flow injection analysis; Luminol; Electrochemiluminescence; Biosensor; Glycolic acid (Zhu, L. (98) 115)
- Plasma treatment  
PMMA; Humidity sensing (Dabhade, R.V. (98) 37)
- Plastic micromachining  
Epoxy casting; Microfluidics; BioMEMS; Microfabrication; Polymers (Sethu, P. (98) 337)
- Platinum  
Gold; Nanoparticles; Sensor; Chemiresistor; Vapor; Ammonia; Carbon monoxide (Joseph, Y. (98) 188)
- PMMA  
Humidity sensing; Plasma treatment (Dabhade, R.V. (98) 37)
- Poly(2,5-dimethylaniline)  
Carbon nanotubes; Acid vapours sensor; Spontaneous undoping process (Bavastrello, V. (98) 247)
- Poly(butyl acrylate) membrane  
Photocure; Self-plasticising; Ammonium ion sensor; Sewage (Heng, L.Y. (98) 160)
- Polyaniline thin films  
Nitrogen dioxide; Optical absorbance; Adsorption energies (Elizalde-Torres, J. (98) 218)
- Polymers  
Epoxy casting; Microfluidics; BioMEMS; Microfabrication; Plastic micromachining (Sethu, P. (98) 337)
- Polymethylmetacrylate  
Environmental pollution; Phenol; Quartz crystal microbalance (Mirmohseni, A. (98) 28)
- Porous solid  
Off-stoichiometric perovskite oxides; Humidity sensor; Proton conductor;  $\text{H}_2\text{O}$  absorption (Wang, W. (98) 282)
- Potentiometric gas sensor  
Oxygen; Carbon monoxide; Pt; Au; Solid electrolyte (Guillet, N. (98) 130)
- Potentiometry  
Lanthanum; bis(Thiophenyl)phenylene-1,3-diamine (TPD); Schiff's base; TPD (Ganjali, M.R. (98) 92)
- Potentiometry  
Triiodide ion-selective electrodes; Liquid membrane; Schiff base complexes (Sadeghi, S. (98) 174)
- L-Proline  
Enantioselective, potentiometric membrane electrode; Enantioanalysis; Maltodextrin (Ozoemena, K.I. (98) 97)

- Proteomics  
Nano-electrospray ionisation; Micro-fabrication; Micro-fluidic device; Lab-on-chip;  $\mu$ TAS; SU-8; Mass spectrometry (Arscott, S. (98) 140)
- Proton conductor  
Off-stoichiometric perovskite oxides; Humidity sensor;  $H_2O$  absorption; Porous solid (Wang, W. (98) 282)
- Pt  
Oxygen; Carbon monoxide; Potentiometric gas sensor; Au; Solid electrolyte (Guillet, N. (98) 130)
- Pulsed laser deposition  
 $In_2O_3$ ;  $WO_3$  and InAcAc basic materials; Ozone and  $NO_x$ ; Low temperature sensitivity (Fryček, R. (98) 233)
- Quartz crystal microbalance  
Environmental pollution; Phenol; Polymethylmetacrylate (Mirmohseni, A. (98) 28)
- R134a  
Tin oxide gas sensors; TGS sensor array; Electronic nose applications;  $CO_2$  and humidity effects; Data processing; Pattern recognition (Delpha, C. (98) 46)
- Readout  
ISFET; Wheatstone-Bridge (Morgenshtein, A. (98) 18)
- Reducing gases  
 $In_2O_3$ ; Spray pyrolysis; Gas response (Korotcenkov, G. (98) 122)
- Refractive index  
PDMS; Surface plasmon resonance; Microfluidics; Soft lithography; Spreeta (Wheeler, A.R. (98) 208)
- Regioregular polythiophenes  
Organic thin-film-transistors; OTFT gas sensors; Alkoxy chains; Ethanol sensor (Torsi, L. (98) 204)
- Schiff base complexes  
Triiodide ion-selective electrodes; Liquid membrane; Potentiometry (Sadeghi, S. (98) 174)
- Schiff's base  
Lanthanum; Potentiometry; bis(Thiophenyl)phenylene-1,3-diamine (TPD); TPD (Ganjali, M.R. (98) 92)
- Screen printed electrodes  
Pesticide; Chlorsulfuron; Immunosensor (Dzantiev, B.B. (98) 254)
- Self-aligned optical fibers  
PDMS observation cell; Spectral flow cytometry; PIN photodiode; Microfluidics; Multi-parameter biological detection (Tung, Y.-C. (98) 356)
- Self-plasticising  
Photocure; Poly(butyl acrylate) membrane; Ammonium ion sensor; Sewage (Heng, L.Y. (98) 160)
- Semiconductor gas sensors  
Tin dioxide; Cobalt oxide; Carbon monoxide; Hydrogen (Choi, U.-S. (98) 166)
- Semiconductor interface  
Light-addressable potentiometric sensor (LAPS); Silicon-based detector; Cell (Stein, B. (98) 299)
- Semiconductor  
Ammonia; Tellurium film; Gas sensor; Impedance spectroscopy (Sen, S. (98) 154)
- Sensitive DNA  
Electrical detection; Microelectrodes (Moreno-Hagelsieb, L. (98) 269)
- Sensor  
Gold; Platinum; Nanoparticles; Chemiresistor; Vapor; Ammonia; Carbon monoxide (Joseph, Y. (98) 188)
- Sensor  
Hydrogen; Solid electrolyte; Palladium (Maffei, N. (98) 73)
- Sewage  
Photocure; Poly(butyl acrylate) membrane; Self-plasticising; Ammonium ion sensor (Heng, L.Y. (98) 160)
- Silicon-based detector  
Light-addressable potentiometric sensor (LAPS); Cell; Semiconductor interface (Stein, B. (98) 299)
- $SnO_2$  thin films  
Gas response; Kinetics; Chemisorbed species (Korotcenkov, G. (98) 41)
- Soft lithography  
PDMS; Surface plasmon resonance; Microfluidics; Spreeta; Refractive index (Wheeler, A.R. (98) 208)
- Solid electrolyte  
Hydrogen; Sensor; Palladium (Maffei, N. (98) 73)
- Solid electrolyte  
Oxygen; Carbon monoxide; Potentiometric gas sensor; Pt; Au (Guillet, N. (98) 130)
- Solid-state ammonia sensor  
Ammonia detection; Berthelot's reaction; Optical sensor; Colorimetric method; Disposable sensor; Water monitoring (Lau, K.T. (98) 12)
- Spectral flow cytometry  
PDMS observation cell; Self-aligned optical fibers; PIN photodiode; Microfluidics; Multi-parameter biological detection (Tung, Y.-C. (98) 356)
- Spontaneous undoping process  
Poly(2,5-dimethylaniline); Carbon nanotubes; Acid vapours sensor (Bavastrello, V. (98) 247)
- Spray pyrolysis  
 $In_2O_3$ ; Gas response; Reducing gases (Korotcenkov, G. (98) 122)
- Spreeta  
PDMS; Surface plasmon resonance; Microfluidics; Soft lithography; Refractive index (Wheeler, A.R. (98) 208)
- SU-8  
Nano-electrospray ionisation; Micro-fabrication; Micro-fluidic device; Lab-on-chip;  $\mu$ TAS; Mass spectrometry; Proteomics (Arscott, S. (98) 140)
- Support vector machine  
Milk classification; Neural network (Brudzewski, K. (98) 291)
- Surface plasmon resonance  
PDMS; Microfluidics; Soft lithography; Spreeta; Refractive index (Wheeler, A.R. (98) 208)
- Surface roughness  
Ion beam sputtering; Long-term stability; Methane gas; Thin film; Crystallite growth inhibitor (Min, B.-K. (98) 239)
- $\mu$ TAS  
Nano-electrospray ionisation; Micro-fabrication; Micro-fluidic device; Lab-on-chip; SU-8; Mass spectrometry; Proteomics (Arscott, S. (98) 140)
- Taste  
Conducting polymers; Wines; Artificial neural networks; Electronic tongue (Riul Jr., A. (98) 77)
- Tellurium film  
Ammonia; Gas sensor; Semiconductor; Impedance spectroscopy (Sen, S. (98) 154)
- TGS sensor array  
Tin oxide gas sensors; Electronic nose applications; R134a;  $CO_2$  and humidity effects; Data processing; Pattern recognition (Delpha, C. (98) 46)
- Thermal conductivity  
Gas sensor; Transient mode (Tardy, P. (98) 63)
- Thick film  
Nd-doped strontium cerate; HCl sensor (Wang, L. (98) 196)
- Thin film  
Ion beam sputtering; Long-term stability; Methane gas; Crystallite growth inhibitor; Surface roughness (Min, B.-K. (98) 239)
- Tin dioxide  
Cobalt oxide; Semiconductor gas sensors; Carbon monoxide; Hydrogen (Choi, U.-S. (98) 166)



## Tin dioxide

Gas sensors; Flame spray pyrolysis; Aerosol (Sahm, T. (98) 148)

## Tin oxide gas sensors

TGS sensor array; Electronic nose applications; R134a; CO<sub>2</sub> and humidity effects; Data processing; Pattern recognition (Delpha, C. (98) 46)

## TPD

Lanthanum; Potentiometry; bis(Thiophenyl)phenyl-1,3-diamine (TPD); Schiff's base (Ganjali, M.R. (98) 92)

## Transient mode

Gas sensor; Thermal conductivity (Tardy, P. (98) 63)

## Triiodide ion-selective electrodes

Liquid membrane; Schiff base complexes; Potentiometry (Sadeghi, S. (98) 174)

## Valves

Paraffin; PCR; MicroTAS (Liu, R.H. (98) 328)

## Vapor

Gold; Platinum; Nanoparticles; Sensor; Chemiresistor; Ammonia; Carbon monoxide (Joseph, Y. (98) 188)

## Volume control

Microfluidics; Droplet dispensing; Electro-wetting (Ren, H. (98) 319)

## Water monitoring

Ammonia detection; Berthelot's reaction; Optical sensor; Colorimetric method; Solid-state ammonia sensor; Disposable sensor (Lau, K.T. (98) 12)

## Wheatstone-Bridge

ISFET; Readout (Morgenshtein, A. (98) 18)

## Wines

Conducting polymers; Taste; Artificial neural networks; Electronic tongue (Riul Jr., A. (98) 77)

WO<sub>3</sub> and InAcAc basic materialsPulsed laser deposition; In<sub>2</sub>O<sub>3</sub>; Ozone and NO<sub>x</sub>; Low temperature sensitivity (Fryček, R. (98) 233)

## zNose™

Aroma profiling; Honey; Classification; PCA; CDA (Lammertyn, J. (98) 54)